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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/782,386	02/12/2001	Michael Wood	A-62394-2/RFT/TAL	8953	
7.	590 07/22/2002		EVAM	NED	
Todd A. Lorenz FLEHR HOHBACH TEST ALBRITTON & HERBERT LLP			EXAMINER MYERS, CARLA J		
Suite 3400 Four Embarcadero Center San Francisco, CA 94111-4187			WITERS, CARDA J		
			ART UNIT	PAPER NUMBER	
			1634		
			DATE MAILED: 07/22/2002	. (0	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	No.	Applicant(s)			
Office Action Summary		09/782,386		WOOD ET AL.			
		Examiner		Art Unit			
		Carla Myers		1634			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply A CHARTENED STATUTORY DEDIOD FOR REDI VIS SET TO EXPIRE 3 MONTH(S) FROM							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status AND Responsive to communication(s) filed on 28 January 2002							
1)⊠ 2a)⊠							
3)□							
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims							
4)⊠ Claim(s) <u>1-11</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-11</u> is/are rejected.							
7)	Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.							
	on Papers						
, —	The specification is objected to by the Examine			•			
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. ☐ Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment(s)							
2) 🔲 Noti	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)			y (PTO-413) Paper No(s) Patent Application (PTO-152)			

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1. This action is in response to Paper No. 5, filed January 28, 2002. Applicants arguments have been fully considered but are not persuasive to overcome all grounds of rejection. All rejections not reiterated herein are hereby withdrawn. In particular, the previous rejections under 35 U.S. C. 103 are withdrawn in view of the amendment to the claims to recite that the photoactivatable cross-linking agent is sugar and base free. This action contains new grounds of rejection necessitated by Applicants amendments to the claims and is made final.

- 2. The terminal disclaimer filed on January 28, 2002 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of U.S. Patent No. 6,187,532 has been reviewed and is accepted. The terminal disclaimer has been recorded.
- 3. THE FOLLOWING ARE NEW GROUNDS OF REJECTION NECESSITATED BY APPLICANTS AMENDMENTS TO THE CLAIMS:

Claims 1-11 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The specification as originally filed does not provide support for the general concept of a probe comprising a "sugar and base free photoactivatable cross-linking agent" or the concept of a probe comprising a coumarinyl sugar and base free photoactivatable cross-linking agent. The specification (page 6) discloses that the compounds employed for "cross-linking will be photoactivatable compounds which form bonds with a base, particularly a pyrimidine. These

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compounds will include functional moieties, such as coumarin, as present in substituted coumarins, furocoumarin, isocoumarin, bis-coumarin, psoralen, etc... Another class of photoactivatable reactants are organometallic compounds based on any of the d- or f-block transition metals....The probe homologous sequence which binds to the target sequence will usually contain naturally occurring nucleotides. However, in some instances the phosphate-sugar chain may be modified by using unnatural sugars, by substituting oxygens of the phosphate with sulfur, carbon, nitrogen, or the like, or other modifications which can provide for synthetic advantages, stability under the conditions of the assay, resistance to enzymatic degradation, etc.". The specification exemplifies a single photoactivatable crosslinking agent which consists of 3-O-(7-coumarinyl)glycerol. While it is a property of the photoactivatable crosslinking agent 3-O-(7-coumarinyl)glycerol that this compound is sugar-free and base-free, there is no specific disclosure in the specification of other compounds which are also sugar-free and base-free. Thus, the specification provides support for a single species of a photoactivatable cross-linking agent that has the inherent property of being a sugar and base free photoactivatable cross-linking agent. However, the specification as originally filed does not provide support for the claimed genus of any photoactivatable cross-linking agents that is sugar and base free.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

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will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carla Myers whose telephone number is (703) 308-2199. The examiner can normally be reached on Monday-Thursday from 6:30 AM-5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, W. Gary Jones, can be reached on (703)-308-1152. The fax number for the Technology Center is (703)-305-3014 or (703)-305-4242.

Any inquiry of a general nature or relating to the status of this application should be directed to the receptionist whose telephone number is (703) 308-0196.

Carla Myers

July 18, 2002

CARLA J. MYERS PRIMARY EXAMINER